

PSCC Demonstration Project Background

- PSCC Approved Objectives
 - Day-to-day interoperability between local, county, state, and tribal public safety responders on a joint use radio system.
 - Use lessons learned to help construct a new statewide radio system (or system of systems) for Arizona.



PSCC Demonstration Project Background

- PSCC Approved Opportunities
 - Deployment of initial 700 MHz subscriber units in order to be usable for Super Bowl 2008
 - Add 700 MHz trunked system coverage at White Tanks
 - Add 700 MHz trunked system coverage at Oatman Mtn
 - Add an Inter System Interface between YRCS and PRWN / TOPAZ
 - Add 700 MHz radio capability to state agency vehicles working within the expanded coverage area of PRWN/TOPAZ and YRCS

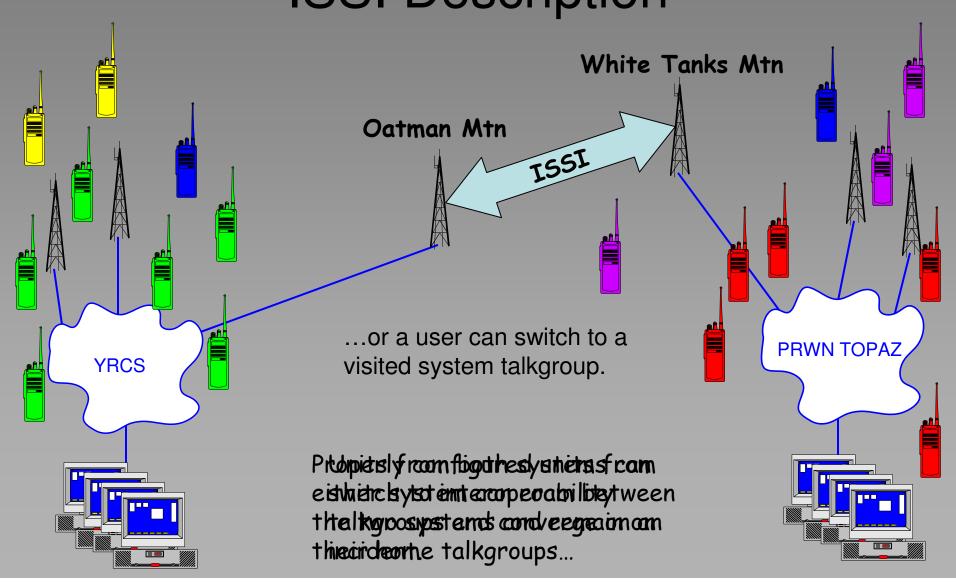
PSCC Demonstration Project Background

- PSCC Approved Opportunities
- Deployment of initial 700 MHz subscriber units in order to be usable for Super Bowl 2008
- Add 700 MHz trunked system coverage at White Tanks ~ \$775 K authorized, including South Mt
- Add 700 MHz trunked system coverage at Oatman

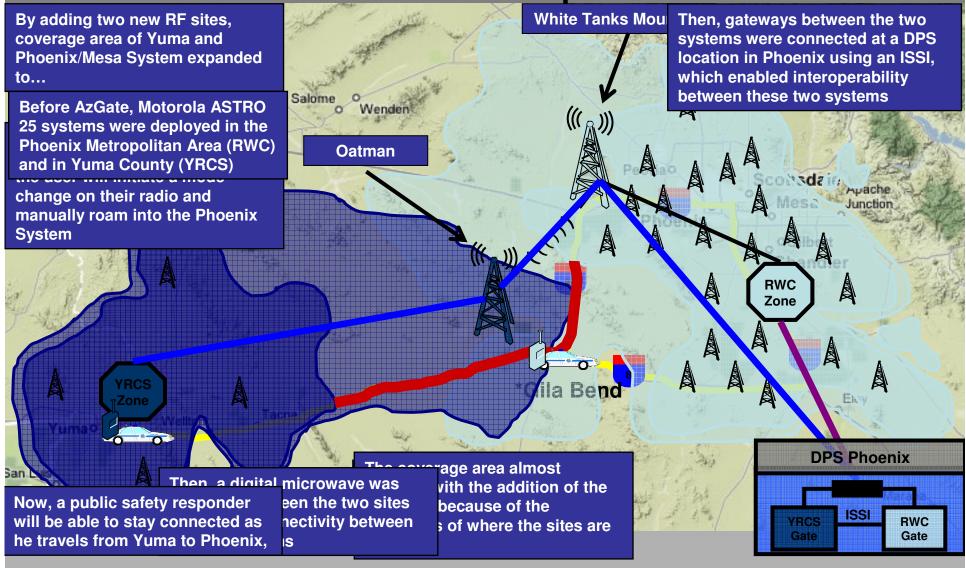
 Mtn ~ \$665 K authorized
- Add an Inter System Interface between YRCS and PRWN / TOPAZ Provided by Motorola; additional ~ \$485 K for DPS console interfaces and radios
 - Add 700 MHz radio capability to state agency vehicles working within the expanded coverage area of PRWN/TOPAZ and YRCS

Note: Funding approximate only; PSCC records hold actual costs

PSCC Demonstration Project ISSI Description



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- Conducted July 30, 2008
- Participants
 - PSCC, DPS, YRCS, RWC, Motorola
- Objectives
 - Exercise the gateway with as much traffic as possible.
 - Test and experience Audio Quality
 - Test "Collide and Divide" scenario
 - Experience roaming across the systems' boundaries
 - Focus on the ISSI, "filter out" coverage issues
 - Get feedback and data on the exercise

Feedback

- Worked well, difficult to distinguish where the teams were in each system. We were impressed
- Surprised the ISSI did not introduce noticeable delay
- Imperceptible delay difference between the two
- Even side by side hard to tell
- Hi fidelity stereo

- Feedback for final product
 - Mobility management and automatic roaming needs to be high on the list, also Network Management, shared DB, single point of entry for user data.
 - Need more features, PTT ID, aliasing;
 - Must be able to deploy in a manageable fashion, simple programming, updated over network.
 - Gateways may require scenarios which have clear coverage demarcation points.
 - Consider an interoperability system ID.

- Feedback for final product
 - Group agrees ISSI not a substitute for shared systems
 - Manual

No OTAR across ISSI

High Overhead

- No ID's across ISSI
- Radio programming, multiple personalities, duplicate ID's, system programming, duplicate talkgroups



PSCC Demonstration Project Next Steps

- Identify the project lead
- Work with Motorola to extend the ISSI test period
- Develop Standard Operating Procedures
- Develop and execute exercises
- Provide feedback and lessons learned towards PSSC goals for statewide interoperablity, system or "system of systems" deployment

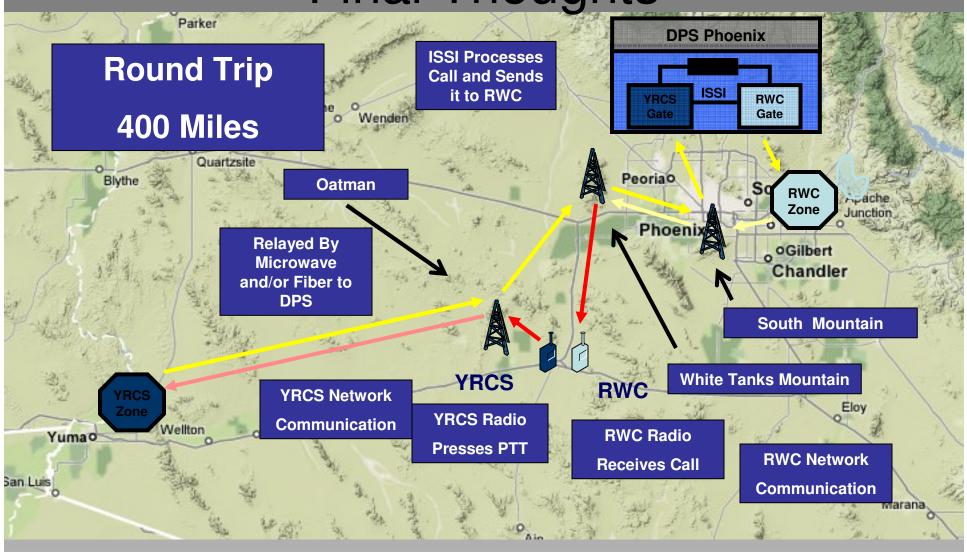
PSCC Demonstration Project Final Thoughts

- ISSI concept has significant merit
- Testing was very successful
- ISSI has potential for interoperability and "System of Systems" concept

Final parting view of ISSI



PSCC Demonstration Final Thoughts



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